



ROKSO HYPOCON HPC

PRODUCT CODE : 137

High-performance High -Range PC Baesd super plasticiser with super slump retention for ready mix concrete

DESCRIPTION

ROKSO HYPOCON HPC is the superplasticizer based on second generation polycarboxylic ether polymers, developed using advance technology. The product has been basically developed for applications in high performance ready-mix concrete to facilitate high early strength gains with super slump retention. **ROKSO HYPOCON HPC** is free of chloride & low alkali. It is compatible with all types of cements.

RECOMMENDED USES

- **ROKSO HYPOCON HPC** is used for the production of high quality ready-mix concrete.
- Concrete containing pozzolans such as microsilica, GGBFS, PFA including high volume fly ash concrete.

FEATURES AND BENEFITS

- Marked increase in early & ultimate strengths
- Total control on the slump at the time of placing
- Elimination of vibration and reduced labour cost in placing by implementing self compacting concrete .
- improved adhesion to reinforcing and stressing steel
- better resistance to carbonation and other aggressive atmospheric conditions
- lower permeability - increased durability
- reduced shrinkage and creep

Technical Data

Aspect Relative	Light brown liquid
Density	1.07 ± 0.02 at 25°C
Ph	? 6
Chloride ion content	< 0.2%

TEST CERTIFICATION/APPROVALS

- ASTM C494 Types G
- EN 934-2 T11.1/11.2
- IS 9103

DOSAGE

Optimum dosage of **ROKSO HYPOCON HPC** should be determined with trial mixes. As a guide, a dosage range of 0.5 to 1.2 % by the weight of cementitious material is normally recommended. Because of variations in concrete materials, concrete design, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local ROKSO representative. For addition information on **ROKSO HYPOCON HPC** admixture or on its use in developing concrete mixes with special performance characteristics, contact your local ROKSO representative.

Effects of over dosage

A severe over-dosage of **ROKSO HYPOCON HPC** can result in the following:

- Reduced permeability
- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored. In the event of over dosage, consult your local ROKSO representative immediately.

APPLICATION

ROKSO HYPOCON HPC is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **ROKSO HYPOCON HPC** to dry aggregate or cement is not recommended. Automatic dispensers are available. Thorough mixing is essential and a minimum mixing cycle, after the addition of the **ROKSO HYPOCON HPC**, of 2-3 Min for forced action mixers is recommended.

CORROSIVITY

NON CORROSIVE **ROKSO HYPOCON HPC** admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of **ROKSO HYPOCON HPC** admixture. In all concrete application, **ROKSO HYPOCON HPC** admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

WORKABILITY

ROKSO HYPOCON HPC ensures that rheoplastic concrete remains workable in excess of 120-150 minutes at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

PACKAGING

ROKSO HYPOCON HPC is supplied in 250 kgs hdpe drums or in bulk on request.

STORAGE /SHELF LIFE

ROKSO HYPOCON HPC must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12 months when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local ROKSO representative.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on ROKSO construction chemicals web site.

Manufactured in INDIA by

ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2015 CERTIFIED COMPANY

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The data & guidelines provided hereabove is based on compiled information which we believe reliable. Users are requested to test all the applications independently before commercial use. This data & informations are non binding & we donot assure any liability for failure of any guidelines or performance of the product as correct identification of the problem, quality of the other materials & on-site workmanship are factors beyond our control.